

E C O T O X

ECOTOXicology Database System

Taxonomic Name Verification Procedures (CRITTERS)

Prepared for

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Office of Research and Development
National Health and Environmental Effects Research Laboratory
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Contract 68-W01-023, Delivery Order No. 24

September 2001

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TAXONOMIC NAME VERIFICATION PROCEDURES

A. OVERVIEW

Taxonomic name verification is an important part of the ECOTOX reviewing process. Organism names used in the scientific literature are under constant revision. To maintain current taxonomic information in the ECOTOX database, ECOTOX staff have formulated a process for scientific name verification and data storage. The following is an overview of the scientific name verification and CRITTERS data entry process, with more detailed information in the Procedures section.

1. Scientific Name Verification

The verification procedure begins when data records associated with unverified taxa are identified during the data abstraction process . These records are placed on hold in the TERRETOX or AQMOD system by reviewing staff, then forwarded to taxonomic verification staff. CRITTERS, the ECOTOX taxonomic information database, is checked to determine if a verified name was overlooked during the reviewing or quality assurance process. If the taxon is not found in CRITTERS, information related to the organism is recorded and tracked through the verification process using index cards. Each scientific name in the data file is verified using one or two taxonomic sources. The Integrated Taxonomic Information System (ITIS; <http://www.itis.usda.gov/>; Appendix A) is the primary source for name verification, and is the sole source if the name found in ITIS has been verified by the ITIS Technical Working Group (TWG). Other taxonomic websites and publications are used as secondary sources for non-TWG ITIS names, or as primary sources for names not found in ITIS. All reference sources are maintained in a Reference Manager bibliographic file (ECOSPEC) which has been compiled over the history of the database (Appendix B; the electronic file is located on the Contractor's R: drive, and is provided to the EPA annually. Actual references can be found on the internet, at the MED or UMD libraries, or in the Contractor's offsite reference files. Each ECOSPEC reference should identify the location of the reference in the KEYWORD field.). A flow chart of the scientific name verification process is given in Figure 1.

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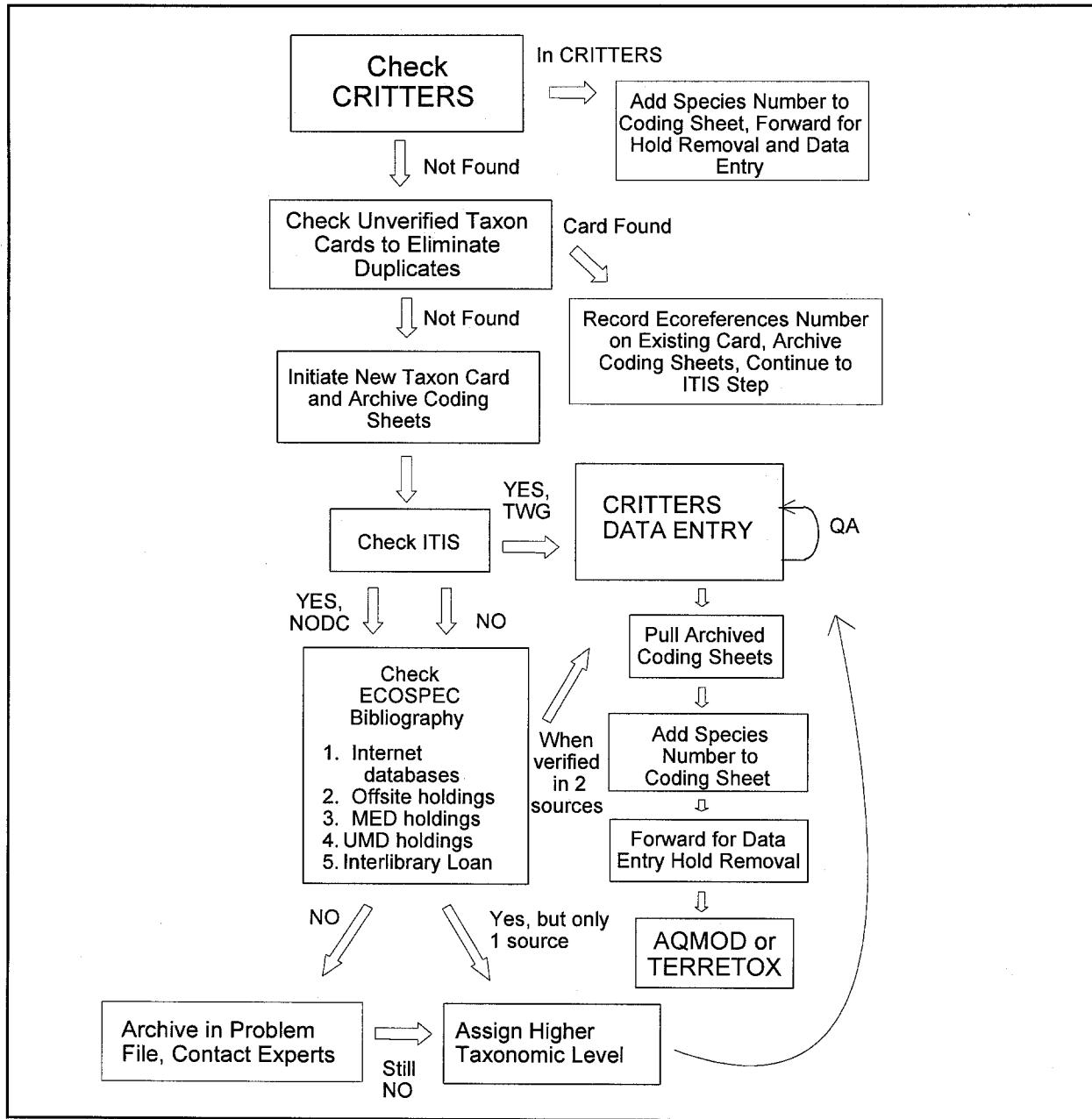


Figure 1. Scientific Name Verification Flowchart

2. CRITTERS Database Entry

Upon verification of the scientific name, common name and taxonomic hierarchy, the taxon is entered into the CRITTERS database. The CRITTERS database was created to integrate a verified taxonomic name list into ECOTOX software. All verified ECOTOX taxa (aquatic and terrestrial, plant and animal) are contained in CRITTERS. During data entry, AQMOD and TERRETOX files are linked to the taxonomic database through a CRITTERS species number. The CRITTERS file is linked to ECOTOX to allow data queries by scientific name, common name, and CRITTERS number.

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Data elements in the CRITTERS database include :

- Scientific Name (Genus and Species)
- Common Name
- ECOSPEC Number (Verification Source Number)
- Synonym Names, both scientific and common, and all related synonym information
- TSN Number (ITIS Classification Number)
- Kingdom, Phylum, Class, Order and Family Information
- Geographic Code (When Available)
- Taxon Author Name and Date
- Species Reviewer Information
- CRITTERS Species Number

Entered data are quality assured by data entry staff, with a second QA by taxonomic verification staff. The verified taxon is immediately available in the TERRETOX or AQMOD data entry systems after entry into CRITTERS. Information on accessing and working with the CRITTERS database is provided in the CRITTERS User Manual at http://www.ecodev.com/critters/critters_home.htm

B. PROCEDURES

1. Scientific Name Verification

When an unverified scientific name is forwarded to taxonomic verification staff, it is first checked in CRITTERS, to see if the name was missed in the reviewing process. If the name is indeed unverified, a 3x5 index card is issued (Fig. 2 & 3) to begin the verification process. On the card, all relevant information is transferred from the toxicity paper, including: scientific name, common name, family name and other taxonomic hierarchy, taxonomic author name and year, and the Ecoreferences number associated with the original toxicity publication. The geographic area that the species inhabits (See Appendix C for Geographic codes) and the water type used (fresh water, salt water, brackish water) are also recorded, if applicable. The TSN (Taxonomic Serial Number) reported by ITIS for each taxon is recorded if available. The complete taxonomic hierarchy should be recorded on the back of the card (Figure 3).

Taxonomic Name Verification Procedures (CRITTERS)

	"Family Name"	Ecoreferences number* (do not enter into CRITTERS)
"Author and year"	"Scientific name"	" Water Type"
	"Common Name"	Loc: "Geographic Code"
(Written in RED) "CRITTERS Species #"	"TSN Number" (TWG or NODC)	"ECOSPEC #'s"

* If the reference is from TERRETOX, write "T" in front of the number.

Figure 2. Taxon Preferred Name 3x5 Card Format - Front

	"Sources Checked"
	"Kingdom Name"
	"Phylum Name"
	"Class Name"
	"Order Name"

Figure 3. Taxon Preferred Name 3x5 Card Format - Back

All scientific names must be verified using one or two taxonomic sources. Verification sources are listed in the ECOSPEC Reference Manager database with unique ECOSPEC identification numbers in field 18. Each taxon card should list the ECOSPEC numbers of sources used to verify the taxonomic information. Any sources checked that do not verify the taxon should also be listed on the card (on the reverse side, in the

Taxonomic Name Verification Procedures (CRITTERS)

"Sources Checked" area, Fig. 3). This allows verification staff to eliminate duplicate searching of sources.

The steps listed below explain the actual verification process (Figure 1 is a pictorial representation of these procedures):

- a. Check CRITTERS. If name is found, record the species number on the coding sheet. Forward to data tracking staff for removal of data entry hold.
- b. Check unverified Taxon cards to eliminate duplicates. If a card is found, record the Ecoreference number of the coding sheet on the existing card, archive the coding sheet if verification cannot be done immediately, and skip to step d.
- c. If the species is not found in CRITTERS, and a Taxon card does not exist, initiate a new Taxon card. Ensure the spelling of the taxonomic name on the coding sheets matches the spelling in the paper. Also, note the common name, higher levels of taxonomy used in the paper, and the origin of the name to aid in the verification process. Archive coding sheets if verification cannot be done immediately.
- d. Consult the ITIS database to verify all needed taxonomic information (<http://www.itis.usda.gov/>; Appendix A). The taxonomic hierarchy, author and year, family name, common name(s) and synonyms will commonly be found here. The TSN number will only be found in ITIS. Also record if the taxonomic name has been reviewed by the Technical Working Group (TWG). "TWG Standards Met" will appear in ITIS if the working group has approved the use of the scientific name. If this occurs for a taxon, write "TWG" after the TSN number and use the "ITIS TWG verified" ECOSPEC reference number. If the ITIS number is unverified NODC, write "NODC" and use the "ITIS NODC unverified" ECOSPEC number. If the taxonomic name has been ITIS verified using TWG standards, another verification source is not needed, and you may skip to step j .
- e. Consult the taxonomic publications listed in ECOSPEC for a verification source (Appendix B). The electronic ECOSPEC file is currently stored in a Reference Manager file at the Contractor's offsite location. The ECOSPEC file identifies taxonomic publications available on credible internet databases, at the MED or UMD libraries, in the Contractor's offsite reference files, or at other places listed in the ECOSPEC KEYWORDS field (field 7). The ECOSPEC file can be searched using specific keywords (Appendix D), which can narrow down the publication selection. Any new verification sources should be entered into the ECOSPEC file, and assigned an ECOSPEC number in field 18. (The ECOSPEC number is not automatically assigned. ECOTOX staff must search for the last number used and assign the next unused number to the new reference.) If verification of the name is accomplished using two ECOSPEC sources, skip to step j .

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- f. If the name can only be verified in one (non-TWG ITIS) ECOSPEC source, pull the coding sheet(s) associated with the unverified name and assign the CRITTERS number of a verified name at the next highest taxonomic level to the associated test (e. g. assign the number of a verified genus for a species name that can only be verified by one source). Record the unverifiable name in the Organism Characteristics field of the data entry sheet. Information regarding ECOTOX references affected and alternative name used should be recorded on the index card for the unverifiable name. That card should then be archived at the Contractor's offsite location.
NOTE: If the taxon to be verified is from a third party data set, the data associated with that taxon should not be released unless the name can be verified in ITIS (TWG) or two other ECOSPEC sources. If such verification is not possible, the name should be sent back to representatives of the third party database, through the EPA ECOTOX coordinator.
- g. If the scientific name cannot be verified from any available ECOSPEC or other credible source, then again check the original paper for correct spelling and origin of the name. There may also be some possible taxonomic sources listed in the toxicity publication in the bibliography.
- h. If consultation with the original paper or its sources still leads to an unverifiable name, then contact an expert on related taxa. Experts can be located using the TRED database in ITIS (<http://www.nbii.gov/datainfo/syscollect/tred/index.html>), or by searching the internet for sites devoted to taxa related to the unverified organism. If information from an expert is used for verification, be sure to add a citation to ECOSPEC with the expert's credentials, and information from the email or memo used to verify the taxon. Place a copy of the email or memo in the ECOSPEC documentation files at the Contractor's offsite location.
- i. If the name is still unverified after consultation with an expert, a verified name at the nearest taxonomic level above the scientific name is used (e. g. a verified genus for an unverifiable species name, a verified class for an unverifiable order, family, genus and species). Pull the coding sheet(s) associated with the unverifiable name and record the CRITTERS number of the name at the higher taxonomic level in the Species Number field. The unverifiable name is then recorded in the Organism Characteristics field of the data entry sheet. Information regarding ECOTOX references affected and alternative name used should be recorded on the index card for the unverifiable name. That card should then be archived at the Contractor's offsite location.
- j. If a scientific name can be verified, the numbers of the verification sources (ECOSPEC numbers) should be recorded on the index card (Figure 2).

2. Taxonomic Synonyms

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The procedures for verifying synonyms are the same as those for verifying preferred scientific names. However, procedures for creating taxon cards differ slightly. All synonyms found for a scientific name are placed on the back of the preferred name index card. Separate index cards are also made for each synonym, noting the preferred name under the synonym name. The species number for the preferred name is written on the synonym card with an "(S)" after the number, indicating that it is a synonym (Figure 4).

Syn of "Preferred Name" (Scientific name for which the name below is a synonym)		
"Author and year"	"Scientific name"	
		"Common Name"
CRITTERS Species # (S)	"TSN Number"	ECOSPEC #s

Figure 4. Taxon Synonym 3x5 Card Format

3. CRITTERS Data Entry

After verification, the new scientific name is entered into CRITTERS. Information on accessing and working with the CRITTERS database is provided in the CRITTERS User Manual at http://www.ecodev.com/critters/critters_home.htm

4. Data Entry of Taxonomic Synonyms

All synonymous names are stored in CRITTERS with the accepted scientific name record. Although the synonym does have its own number assigned by CRITTERS, this is for CRITTERS tracking purposes only and is not used in the data entry process.

5. Quality Assurance

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After data entry is completed from the taxon cards, all entries are independently proofread from the computer printout by data entry and taxonomic verification staff. Corrections are made by data entry staff, then these corrections are proofed from printouts by data entry and taxonomic verification staff.

All cards are archived at the Contractor's offsite location after information has been entered into the database.

6. Removing Holds

After CRITTERS data entry, coding sheets for taxa previously on hold are pulled, CRITTERS number(s) are assigned to the appropriate tests, and sheets are forwarded to data tracking staff who will subtract the appropriate number of tests on hold in AQMOD or TERRETOX. Sheets will be reviewed to ensure that they comply with current coding practices. They will then be sent to AQMOD or TERRETOX data entry.

APPENDIX A: Instructions on Using the

Taxonomic Name Verification Procedures (CRITTERS)
Integrated Taxonomic Information System (ITIS)

Access Information

There is no charge for the use of ITIS. Log onto the INTERNET and connect to the ITIS web site: <http://www.itis.usda.gov/>

Data Access

- 1) On the home web page of ITIS select: DATA ACCESS
- 2) On the next web page select: GENERATE REPORTS
- 3) On the next web page select: SCIENTIFIC NAME LISTING WITH COMMON NAMES
- 4) The next web page is the data retrieval area. Select the appropriate query qualifier of Latin or common name and type in the name of the species that is being verified. If it is located in ITIS the name will appear. Choose this name if it is correct. If the name is not located in ITIS it will tell you so.

A useful tip in searching is: Do not type in the entire name of the species that is being searched. Type in part of the name and end with a wild card “*”. This is done due to the possibility of spelling errors. It is not useful to use an “*” in front of a name as it takes quite some time for the database to do the retrieval.

e. g.: Searching for *Pimephales promelas*

Type in: Pimephales pr*

Information needed from ITIS

The following information used in the verification process of a species name is commonly found in ITIS:

Latin Name
Common name(s)
Synonyms
Author and Year
Geographic Location
Family Name
TSN Number
TWG Standards

The following is a sample page from ITIS. Most information can be found on this page. The Family name can be found by choosing the PARENT link until the Family name is reached.

SAMPLE PAGE FROM ITIS:

Full Report on a Single TSN

Report Based on TSN '163517'

Scientific Name = *Pimephales promelas*

Usage: valid

Author: Rafinesque, 1820

Kingdom : Animalia (5)

Rank Id: Species

Parent and children:

Parent:

163515 Pimephales (Rafinesque, 1820)

Children:

There are no children for this TSN.

Common Names:

fathead minnow

Synonyms:

There are no synonyms for this TSN.

Review and Rating Information:

Ratings:

Taxonomic Credibility Rating: **TWG standards met**

Reviews:

No Review information on this TSN

Time and Date Stamps:

Initial date: 06/13/1996

Update date: 09/14/1998

Geographic Information:

North America

Reference Information:

Click here to display reference information.

Comments:

No comment available on TSN.

Previous| Reports Menu|ITIS Home|Comments

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APPENDIX B: ECOSPEC Reference List

ECOSPEC #75. Abbott, R. T. American Seashells. The Marine Mollusca of the Atlantic and Pacific Coasts of North America. 1974. 2nd Edition, Van Nostrand Reinhold Co. (pp.) 663 . New York, NY. KEYWORDS: Mollusc/North America/SW/UMD /UW - Mad Biol Lib. LC #: UWS-QL411.A19, UMD 594 Ab28

ECOSPEC #449. Ainsworth, G. C. and Sparrow, A. S. The Fungi: A Taxonomic Review With Keys; Ascomycetes and Fungi Imperfecti, Vol. IVA. 1973. Academic Press (pp.) 62 . New York. KEYWORDS: Fungi/UMD. LC #: QK603.A52

ECOSPEC #383. Ainsworth, G. C., Sparrow, F. K., and Sussman, A. S. The Fungi: An Advanced Treatise, Vol. IV-A. 1973. Academic Press Inc. (pp.) 621 . New York. KEYWORDS: Fungi/UMD. LC #: QK603.A52 V.4A

ECOSPEC #229. Akesson, B. Morphology and Life Cycle of Ophryotrocha Diadema, a New Polychaete Species From California. 1976. *Ophelia* 15 (1) : (pp.) 23 - 35 KEYWORDS: CA/Polychaeta.

ECOSPEC #60. Alcock, A. Catalogue of the Indian Decapod Crustacea in the Collection of the Indian Museum . 1901. Trustees of the Indian Museum (pp.) 4 . Calcutta. KEYWORDS: Crustacea/India/UW - Mad Biol Lib. LC #: OCLC 20763952

ECOSPEC #350. Allaby, M. The Concise Oxford Dictionary of Botany. 1992. Oxford University Press (pp.) 442 . Oxford, New York. KEYWORDS: Botany/Plant. LC #: QK9.C67

ECOSPEC #599. American Arachnological Society. Spiders of North America. 2000 . Ohio State University, Ohio. KEYWORDS: Arachnida/Internet Database/Spider. URL: http://kaston.transy.edu/spiderlist/spna_pg1.htm

ECOSPEC #484. American Ornithologist's Union. The A.O.U. Check-List of North American Birds. 1983. Allen Press, Lawrence, Kansas . 6th Edition. KEYWORDS: Birds.

ECOSPEC #606. American Type Culture Collection (ATCC). American Type Culture Collection: Mycology and Botany Database. 2001 . 10801 University Boulevard, Manassas, VA 20110-2209. KEYWORDS: Internet Database/Fungi/protista. URL: <http://www.atcc.org/>

ECOSPEC #108. Andrews, J. Sea Shells of the Texas Coast. 1971. University of Texas Press (pp.) 298 . Austin, TX. KEYWORDS: Shell/SW/TX.

ECOSPEC #183. Anonymous. Collection File, Smithsonian Institution. 1986. Museum of Natural History, Smithsonian Institution . Washington, D.C. KEYWORDS: General.

ECOSPEC #247. Antia, N. J. and Cheng, J. Y. The Keto-Carotenoids of Two Marine Coccoid Members of the Eustigmatophyceae. 1982. *Br.Phycl.J.* 17:39-50 KEYWORDS: Eustigmatophyceae/Spec Ref File/SW.

ECOSPEC #497. Arachnology Nomenclature Committee, CIDA. A Proposal to Standardise the Ordinal Names Amongst the Arachnida. 1999. Arachnology Home Page: KEYWORDS: Arachnida/Internet Database. URL: <http://www.ufsia.ac.be/Arachnology/Pages/Documents/Nomencla.htm>

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ECOSPEC #651. ARBOREA. Checklist for Directive 92-43-CEE of May 21, 1992, Concerning the Conservation of Natural Habitats As Well As Wild Fauna and Flora. 7-22-0092. Official Journal of the European Communities L206(pp.) 7 . France. KEYWORDS: Internet website/plantae/Animalia. URL: <http://www.arborea.com/Welcome.htm>

ECOSPEC #439. Arnett, R. H. The Beetles of the United States; A Manual for Identification. 1968. Ross H.Arnett, Jr. (pp.) 1112 . United States. KEYWORDS: Beetle/UMD. LC #: QL583.a7

ECOSPEC #437. Arnett, R. H. American Insects: A Handbook of the Insects of America North of Mexico. 1985. Van Nostrand Reinhold Company, Inc. (pp.) 850 . New York. KEYWORDS: America/Insect/UMD. LC #: REF QL474.a76

ECOSPEC #581. ARS, USDA. Systematic Entomology Laboratory. 2000. Internet Site Beltsville, MD. KEYWORDS: Insects/Internet Database. URL: <http://www.sel.barc.usda.gov/>

ECOSPEC #278. Asher, A. and Spaulding, D. F. Eds. Culture Centre of Algae and Protozoa - List of Strains 1982. 1982. Natural Environment Research Council, Institute of Terrestrial Ecology (pp.) 82 . Cambridge, England. KEYWORDS: Algae/EPA/protozoa.

ECOSPEC #36. Aston, H. I. Aquatic Plants of Australia. 1973. Melbourne University Press (pp.) 368 . Carlton, Victoria, Australia. KEYWORDS: Australia/Plant.

ECOSPEC #522. Atlas, R. M. and Bartha, R. Microbial Ecology: Fundamentals and Applications. 1998. Benjamin/Cummings Science Publishing . Menlo Park, CA. KEYWORDS: microbes/Microbial Ecology textbook.

ECOSPEC #524. Australian Centre for Plant Biodiversity Research. Australian Plant Name Index (APNI). 1999 . Australian National Botanic Gardens, Canberra, Australia. KEYWORDS: Internet Database/Plant/Australia. URL: <http://www.anbg.gov.au/cgi-bin/apn>

ECOSPEC #671. Australian Department of the Environment, Sport and Territories. Refugia for Biological Diversity in Arid and Semi-Arid Australia: Taxonomic Index. 2001 . Australia. KEYWORDS: Internet Database/Animalia/plants. URL: http://chm.environment.gov.au/publications/biodivser_4/index.html

ECOSPEC #87. Axelrod, H. R. and Schultz, L. P. Handbook of Tropical Aquarium Fishes. 1971. T.F.H.Publications, Inc. (pp.) 718 . Neptune City, NJ. KEYWORDS: Fish/SW/UMD. LC #: SF457.A3X

ECOSPEC #409. Baker, E. W. and Wharton, C. W. An Introduction to Acarology. 1952. MacMillan Company (pp.) 465 . New York, NY. KEYWORDS: Mite/Tick/UMD. LC #: QL 458.A2 B16

ECOSPEC #26. Baker, F. C. The Lymnaeidae of North and Middle America, Recent and Fossil. 1911. Chicago Academy of Sciences (pp.) 539 . Chicago, IL. KEYWORDS: Lymnaeidae/Snail/UMD/US. LC #: 594 B172

ECOSPEC #101. Baker, F. C. The Fresh Water Mollusca of Wisconsin. Part 1. Gastropoda. Part II. Pelecypoda. 1928. Bulletin No.70, Wisconsin Geol.Natural History Survey, Wisconsin

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Acad.Sci., Arts Lett., Publ. (pp.) 507 KEYWORDS: FW/Gastropoda/Mollusc/ Pelecypoda/UMD. LC #: 594 B172

ECOSPEC #263. Baker, H. R. and Brinkhurst, R. O. A Revision of the Genus Monopylephorus and Redefinition of the Subfamilies Rhyacodrilinae and Branchiurinae (Tubificidae: Oligochaeta). 1981. Can.J.Zool. 59(pp.) 939 - 965 KEYWORDS: Spec Ref File/Tubificidae.

ECOSPEC #146. Balfour-Browne, F. British Water Beetles. 1940. Vol.1, Ray Society (pp.) 375 . London, England. KEYWORDS: Beetle/England/UW - Mad Biol Lib.

ECOSPEC #197. Balon, E. K. and Coche, A. G. Lake Kariba: A Man-Made Tropical Ecosystem in Central Africa. 1974. Dr.W.Junk Publ. (pp.) 767 . The Hague, Netherlands. KEYWORDS: Africa/UMD. LC #: QL635 Z28B3X

ECOSPEC #99. Barnard, C. M. and Barnard, J. L. Freshwater Amphipoda of the World-1. Evolutionary Patterns. 1983. Hayfield Assoc . Mt Vernon, VA. KEYWORDS: Amphipod/FW/St.Paul - ENT/World. LC #: QL 444 M315 B37

ECOSPEC #54. Barnard, J. L. Gammaridean Amphipoda of Australia, Part II. 1974. Smithsonian Contr.Zool.139 (pp.) 148 KEYWORDS: Amphipoda/Australia/Museum of Natural History. LC #: Smithsonian contributions to zoology #103,139,245,269

ECOSPEC #110. Barnard, J. L. Littoral Gammaridean Amphipoda From the Gulf of California and the Galapagos Islands. 1979. Smithsonian Contr.Zool.271 (pp.) 149 KEYWORDS: Amphipoda/CA/Galapagos Is/St.Paul - ENT/SW.

ECOSPEC #203. Barnes, R. D. Invertebrate Zoology. 1974. 3rd Edition, W.B.Saunders Co. (pp.) 870 . Philadelphia, PA. KEYWORDS: Invertebrate/UMD. LC #: QL362 B27

ECOSPEC #323. Barnes, R. D. Invertebrate Zoology. 1980. 4th Edition, Saunders College (pp.) 1089 . Philadelphia, PA. KEYWORDS: Invertebrate/Spec Ref File.

ECOSPEC #150. Bayne, B. L. Ed. Marine Mussels: Their Ecology and Physiology. 1976. Cambridge University Press (pp.) 506 . Cambridge, Great Britain. KEYWORDS: Mussel/SW/UW - Mad Ag Lib. LC #: QL430.7 U6 M37

ECOSPEC #277. Beavan, R. Handbook of the Freshwater Fishes of India. 1982. Narendra Publ.House (pp.) 247 . Delhi, India. KEYWORDS: Fish/FW/India/St.Paul - ENT.

ECOSPEC #49. Bei-Bienko, G. Y. Ed. Keys to the Insects of the European USSR, Vol. 1. 1967. Israel Program for Scientific Translation (Trans From Russian) (pp.) 1214 . Jerusalem. KEYWORDS: Europe/Insect/Russia/UMD. LC #: 595.7 K523

ECOSPEC #372. Beklemishev, W. N. Principles of Comparative Anatomy of Invertebrates, Vol. 1, Promorphology. 1969. The University of Chicago Press (pp.) 490 . Chicago, IL. KEYWORDS: EPA/ Invertebrate. LC #: QL 363.B413V.1

ECOSPEC #73. Belkin, J. N. The Mosquitoes of the South Pacific (Diptera, Culicidae). 1962. University of California Press (pp.) 608 . Berkeley, CA. KEYWORDS: Mosquito/Pacific/St.Paul - ENT/SW. LC #: 595.77 B412

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ECOSPEC #252. Bellan-Santini, D., Karaman, G., Krapp-Schickel, G., Ledoyer, M., Myers, A. A., Ruffo, S., and Schiecke, U. The Amphipoda of the Mediterranean, Part I . 1982. In: S.Ruffo (Ed.), *Memoires De L'Institut Oceanographique*, Foundation Albert, Prince De Monaco 13 (pp.) 271 - 272, 280 KEYWORDS: Amphipoda/Mediterranean/Spec Ref File.

ECOSPEC #493. Benell-Aitchison, C. W. and Dondale, C. D. A Checklist of Manitoba Spiders (Araneae) With Notes on Geographic Relationships. 1990. Naturaliste Canadien.Northern Prairie Wildlife Research Center Home Page. 117(pp.) 215 - 237 KEYWORDS: Internet Database. URL: <http://www.npwrc.usgs.gov/resource/distr/invert/spiders/spiders.htm>

ECOSPEC #96. Bessey, E. A. Morphology and Taxonomy of Fungi. 1961. Hafner Publishing Company (pp.) 791 . New York, NY. KEYWORDS: Fungi/UMD. LC #: 589.2 B464

ECOSPEC #241. Beu, A. G. Descriptions of New Species and Notes on Taxonomy of New Zealand Mollusca. 1970. *Trans.R.Soc.N.Z.(Earth Sci.)* 7 (8) : (pp.) 113 - 136 KEYWORDS: Australia/Mollusc.

ECOSPEC #231. Bhati, D. P. S. and Shukla, V. N. Suppression of the Species *Rana Dobsonii* Boul. and Redescription of *Rana Breviceps Schn.* 1975. *Annals Zool.Agra* 11 (3) : (pp.) 73 - 75 KEYWORDS: Rana.

ECOSPEC #129. Biological Laboratory, Imperial Household Ed. The Crabs of Sagami Bay. 1965. East-West Press (pp.) 206 . Honolulu, HI. KEYWORDS: Crab/HI/UW - Mad Biol Lib.

ECOSPEC #399. BIOSIS / Zoological. Zoological Record. 1997. On-Line Database Provided by Biological Abstracts, Inc.(BIOSIS) KEYWORDS: Internet Database.

ECOSPEC #590. Bishop Museum. Zoological and Botanical Databases on the Bishop Museum Web Site. 2000. Internet Site . Bishop Museum 1525 Bernice Street Honolulu Hawai'i 96817-0916 USA. KEYWORDS: Internet Database/Inverts. URL: <http://www.bishop.hawaii.org/bishop/bisnatsci.html>

ECOSPEC #458. Blair, W. F., Blair, A. P., Brodkorb, P., Cagle, F. R., and Moore, G. A. Vertebrates of the United States. 2nd Edition. 1968. McGraw-Hill . New York, NY. KEYWORDS: EPA/US/Vertebrates.

ECOSPEC #2. Blanc, M., Banarescu, P., Gaudet, J. L., and Hureau, J. C. European Inland Water Fish: A Multilingual Catalogue. 1971. Fishing News (Books) Ltd. (pp.) 191 . London, England. KEYWORDS: EPA/Europe/Fish/FW/UW - Mad. LC #: QL 618 E9

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APPENDIX C : Geographic Codes

Tables 1 and 2 are the definitions of *Geographic Division* and *Jurisdiction*, respectively, taken from the **ITIS Database Physical Model**. The name listed under LOCATION is reported in the ITIS Geographic Information Section.

The three letter Location codes will be used to represent the full name in CRITTERS data entry (Geographic Location field). Multiple Location codes can be entered into this field.

Table 1: Proposed *Geographic Division* Location List for CRITTERS

LOCATION	CODE	AREAS INCLUDED:
NORTH AMERICA	NAM	The United States (excluding Hawaii), Canada, Greenland
MIDDLE AMERICA	MAM	Mexico, Guatemala, Belize, El Salvador, Honduras, Nicaragua, Costa Rica, Panama
CARIBBEAN	CAR	The islands of the Caribbean: Bahamas, Puerto Rico, Cuba, Virgin Islands (US & UK), Jamaica, Haiti, Cayman Islands, Dominican Republic, Trinidad-Tobago, the Lesser Antilles including Aruba, Curacao, the Leeward Islands (Antigua-Barbuda, Anguilla, Aves, Guadeloupe, Montserrat, Antilles, St. Kitts-Nevis, St. Martin-St. Barthelemy), the Windward Islands (Barbados, Dominica, Grenada, Martinique, St. Lucia, St. Vincent), Bermuda
SOUTH AMERICA	SAM	Columbia, Venezuela, Guyana, Surinam, French Guiana, Brazil, Ecuador, Peru, Bolivia, Paraguay, Uruguay, Argentina, Chile, Galapagos, Falklands, San Felix, Trindade, Fernando de Noronha, Juan Fernandez Islands

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EUROPE & NORTHERN ASIA	ENA	Portugal, Spain, Azores Island, Madeira Island, France, Luxembourg, Belgium, Netherlands, Germany, Switzerland, Denmark, Finland, Sweden, Norway, Austria, Italy, Greece, Turkey, Cyprus, Poland, Czech Republic, Rep of Slovakia, Romania, Hungary, Bulgaria, Albania, Yugoslavia (Serbian Republic, Rep of Monte Negro, Macedonia, Slovenia, Croatia, Bosnia), United Kingdom (Scotland, Wales, England, Northern Ireland), Ireland, Iceland, Russia, independent states of the former Soviet Union (Georgia, Azerbaijan, Turkmenistan, Uzbekistan, Tajikistan, Kyrgyzstan, Kazakhstan, Ukraine, Belarus, Lithuania, Latvia, Estonia), Israel, Lebanon, Jordan, Syria, Saudi Arabia, Yemen, South Yemen, Oman, United Arab Emirates, Kuwait, Bahrain, Iraq, Iran, Afghanistan, Mongolia
AFRICA	AFR	Morocco, Algeria, Libya, Egypt, Mauritania, Mali, Niger, Chad, Sudan, Ethiopia, Somalia, Senegal, the Gambia, Guinea Bissau, Guinea, Burkina, Sierra Leone, Liberia, Ivory Coast, Ghana, Togo, Benin, Nigeria, Cameroon, Central African Republic, Uganda, Mozambique, Zimbabwe, Namibia, Botswana, Swaziland, Republic of South Africa, Lesotho, Madagascar, the Seychelles, Mauritius, the Comoros Islands, Sao Tome, Principe, Canaries, Cape Verde, Ascension, St. Helena, Tristan de Cunha
SOUTHERN ASIA	SAS	China, Pakistan, India, Sri Lanka, the Maldives, Nepal, Bhutan, Bangladesh, Burma, North Korea, South Korea, Japan, Thailand, Laos, Cambodia, Vietnam, Malaysia, Taiwan, the Philippines, Borneo, Indonesia, Singapore
AUSTRALIA	AUS	Australia, Tasmania, Macquarie, Lord Howe, Norfolk Island, New Guinea, Irian Jaya, Papua New Guinea, the Bismarck Archipelago, Solomon Islands, New Hebrides (Vanuatu), New Caledonia, New Zealand, Chatham, Bounty, Antipodes, Aukland, Campbell Islands
OCEANIA	OCE	Micronesia, Polynesia, Palau, Guam, Truk, Marshall Islands, Kiribati, Midway Islands, Fiji, Tonga, Samoa, Cook Islands, Tuamotu, Line Islands, Tokelau, Tuvalu, Phoenix Islands, Easter Islands, the Marquesas, Tahiti, the Hawaiian Islands
ANTARCTICA/SOUTHERN OCEAN	ANT	Antarctic Continent and islands, and the ocean below 40 degrees South latitude, not including the tip of South America or Australia

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EASTERN ATLANTIC OCEAN	EAO	Marine habitats along the western coast of Europe and Africa to the Mid-Atlantic Ridge, including the Mediterranean and Caspian Seas, and littoral habitats along the continental coasts and inclusive islands
WESTERN ATLANTIC OCEAN	WAO	Marine habitats west of the Mid-Atlantic Ridge to the eastern shore of North, Middle and South America including the waters of the Caribbean and the Gulf of Mexico and littoral habitats along the continental coasts and inclusive islands
INDO-WEST PACIFIC	IWP	Marine habitats of the Indian Ocean including the Red Sea and the Persian Gulf and the Western Pacific Ocean west to and including the waters around Hawaii and Easter Islands
EAST PACIFIC	EAP	Marine habitats in the Western Pacific east of Hawaii and the Easter Islands to and including the littoral habitats of the west coasts of North, Middle and South America and the associated off shore islands out of the Galapagos

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Table 2: Proposed Jurisdiction Location List for CRITTERS

LOCATION	CODE	AREAS INCLUDED
CONTINENTAL US	CUS	48 contiguous US states between Mexico and Canada,
ALASKA	ALK	State of Alaska including St. Lawrence Island, Aleutian Islands
HAWAII	HAW	State of Hawaii (northwestern island chain from Pearl and Hermes Reef to Nihoa (sometimes called Bird Islands)) - Niihau, Kauai, Oahu, Molokai, Lanai, Maui, Kahoolawe, Hawaii
CENTRAL PACIFIC TERRITORIES	CPT	Commonwealth of the Northern Mariana Islands, Guam, American Samoa, Baker Island, Howland Island, Jarvis Island, Johnston Atoll, Kingman Reef, Palmyra, Midway Islands, Wake Island
CARIBBEAN TERRITORIES	CBT	The Commonwealth of Puerto Rico, US Virgin Islands (St. John, St. Thomas and small surrounding islands), Navassa Island
CANADA	CAN	Quebec, Ontario, British Columbia, Nova Scotia, Yukon Territory, Saskatchewan, Northwest Territories, New Brunswick, Alberta, Newfoundland, Prince Edward Island, Manitoba

APPENDIX D: Keywords For ECOSPEC

Taxonomic Name Verification Procedures (CRITTERS)

<u>Source Code</u>	<u>USA</u>	<u>Caddisfly</u>
Dick Anderson - EPA	West Indies	Clam
Duluth Public Library	World	Crab
EPA		Crayfish
EPA-Monticello	<u>Body of Water</u>	Dragonfly
Internet database		Fern
Museum of Natural History	Adriatic	Flagellate
Spec Ref File	Antarctic	Flatfish
St.Paul - ENT	Atlantic	Fly
U of M	Great Lakes	Frog
UMD	Mediterranean	Hydra
UW - Mad	Pacific	Leech
UW - Mad Ag Lib	Wetland	Mayfly
UW - Mad Biol Lib		Mite
UW - Mad Mem Lib		Mollusc
UWS	<u>U.S. State</u>	Mosquito
	CA	Mussel
<u>Water Type</u>	FL	Oyster
FW	HI	Prawn
SW	IL	Ray
BW (Brackish water)	NY	Seaweed
	OH	Shark
	TX	Shrimp
	WI	Skate
<u>Geographical location</u>		Snail
<u>Countries/Areas</u>	<u>Organisms</u>	Starfish
Africa	<u>General</u>	Stonefly
America		Toad
Asia	Algae	Worm
Australia	Amphibian	
Bahamas	Diatom	<u>More specific</u>
Canada	Fish	Algae
Central America	Fungi	Chamydomonas
China	General	Charophyte
Egypt	Insect	Chlorococcales
England	Invertebrate	Annelida
Europe	Moss	Hirudinea
Galapagos Is	Parasite	Oligochaeta
Germany	Plant	Polychaeta
	Shell	Tubificidae
Italy	<u>Common names</u>	Coelenterata (Cnidaria)
Japan		Medusae
North America	Beetle	
Philippines		Hydra
Russia	Bird	Crustacea
	Blue-green algae	Amphipoda
South America	Bug	Gammaridae
Sweden		Cirripedia

Taxonomic Name Verification Procedures (CRITTERS)

Cladocera	Ostrea	Urochordata
Copepoda	Ostreidae	Asciidiacea
Branchiura	Pelecypoda	Tunicata
Decapoda	Plantae	
Astacidae	(MISC)	
Macrobrachium		
Uca		
Watermily	Arthropod (insects and crustacea)	
Hydrachnellae (FW,	Cichlidae (fish)	
Isopoda	Echinodermata	
Malacostraca	Gastrotricha	
Mysidacea	Gnathostomulida	
Ostracoda	Nematoda	
Insecta	Protozoa	
Anisoptera	Gymnodinium	
Coleoptera	Foraminifera	
Diptera	Rana (frog)	
Chironomidae	Rotifera	
Chironomus	Turbellaria	
Ephemeroptera	Asellidae	
Hemiptera	Cyclaspis	
Corixidae	Eustigmatophyceae	
Megaloptera		
Neuroptera		
Mollusca	Heterosomata	
Gastropoda	Nematocera	
Lymnaeidae	Oncocypris	
	Tridacha	